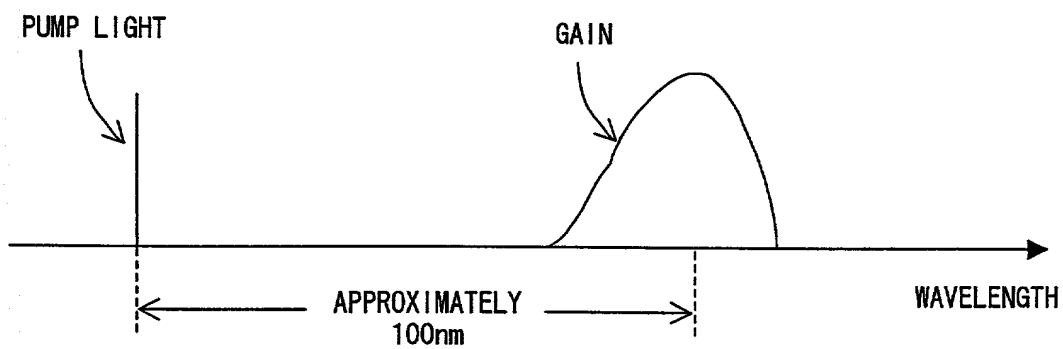
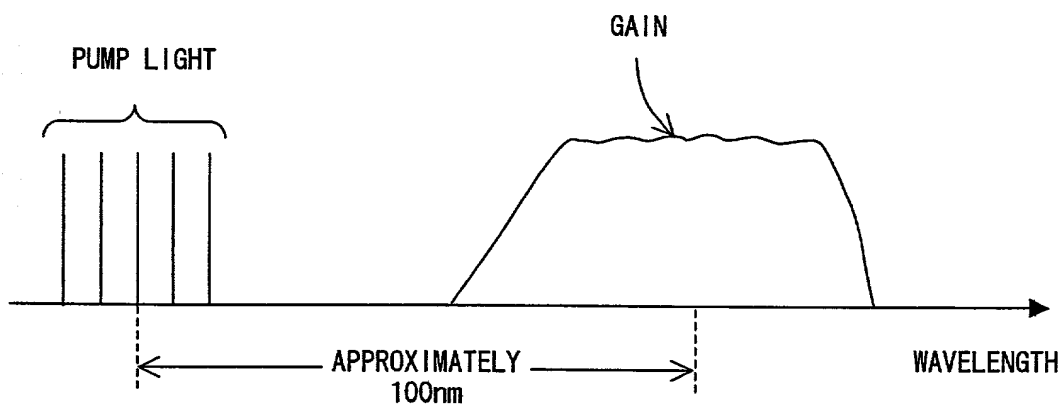


FIG. 1



F I G . 2 A



F I G . 2 B

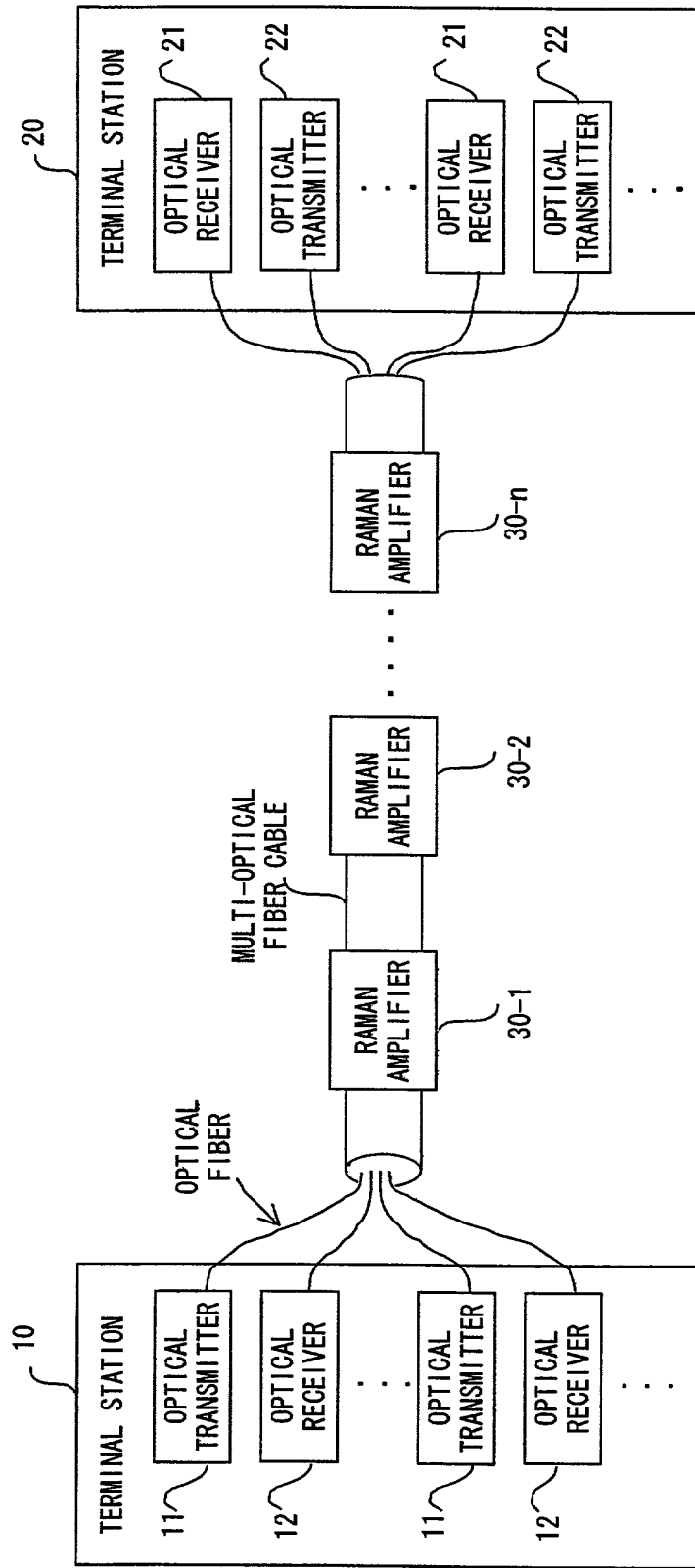


FIG. 4

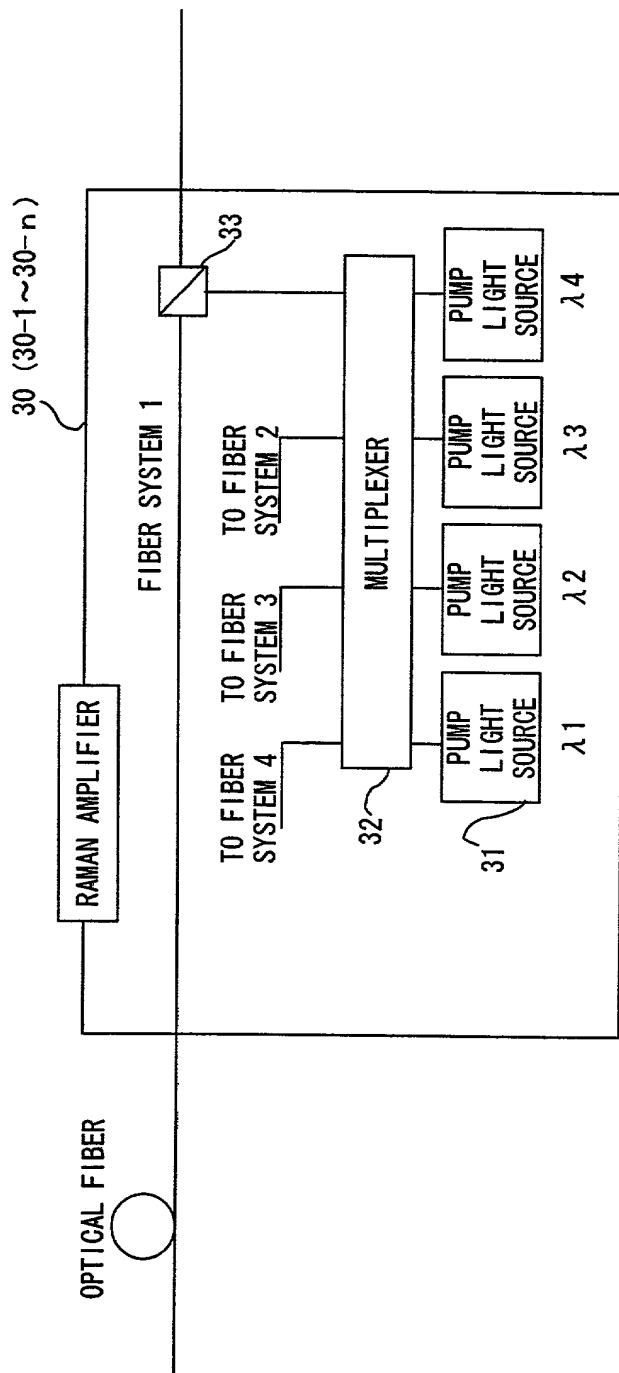


FIG. 5

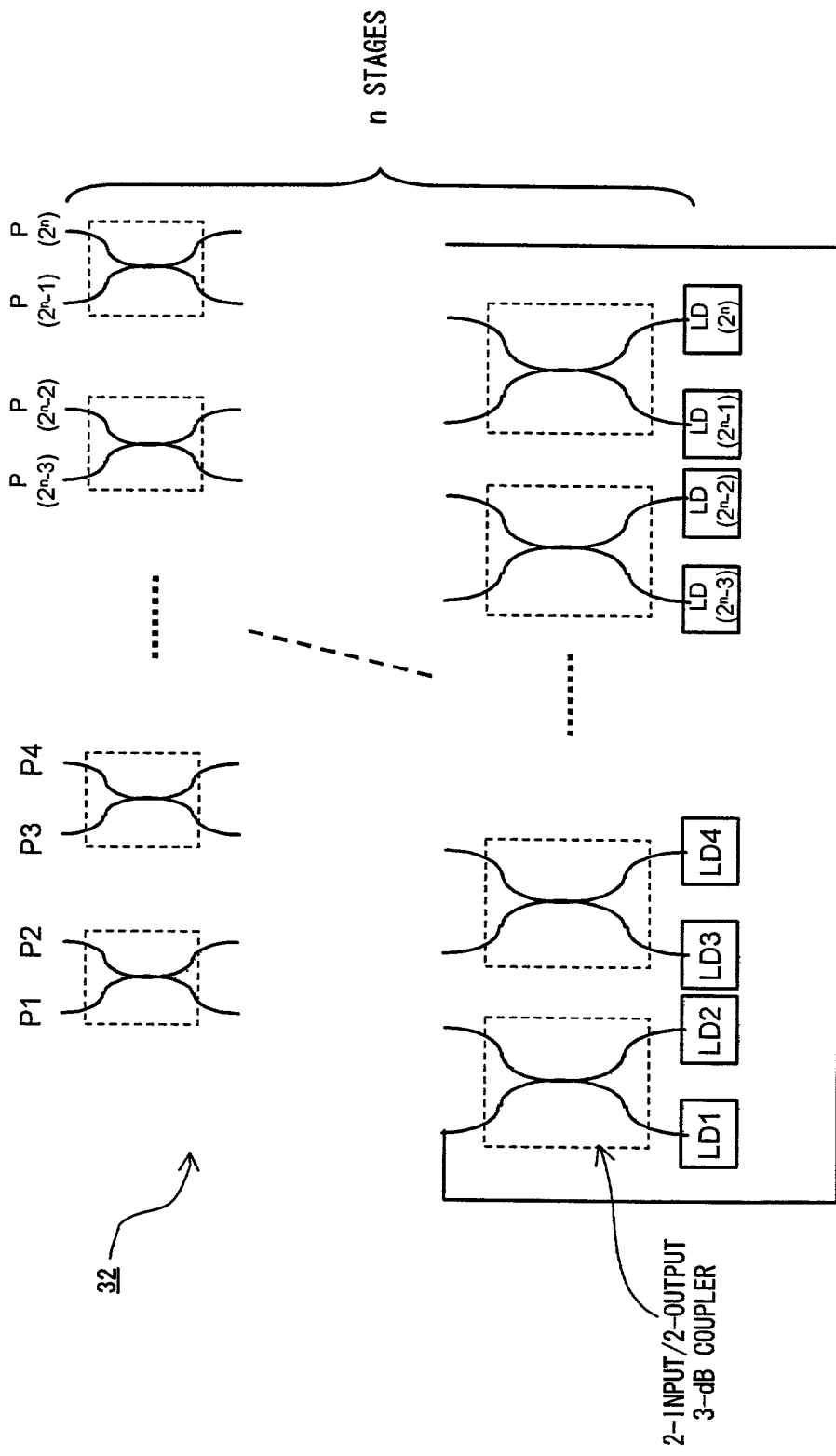


FIG. 6

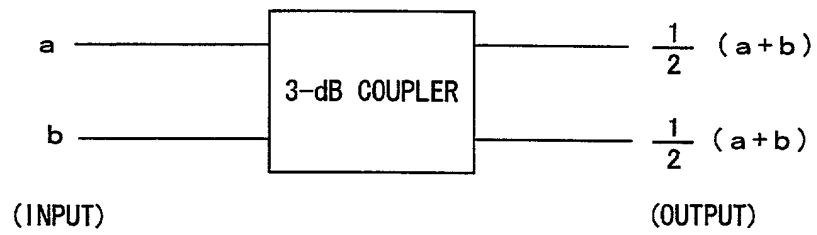


FIG. 7

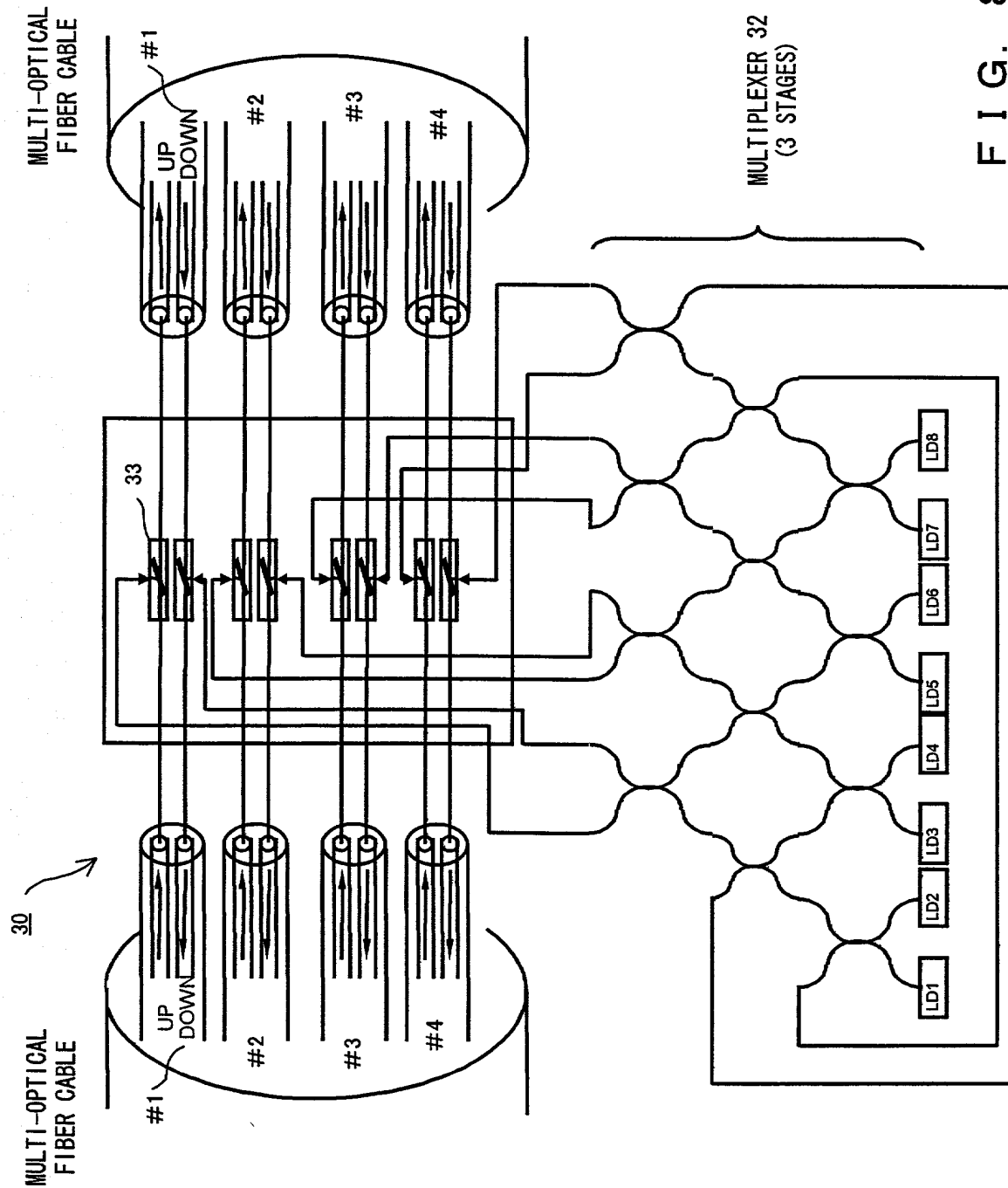
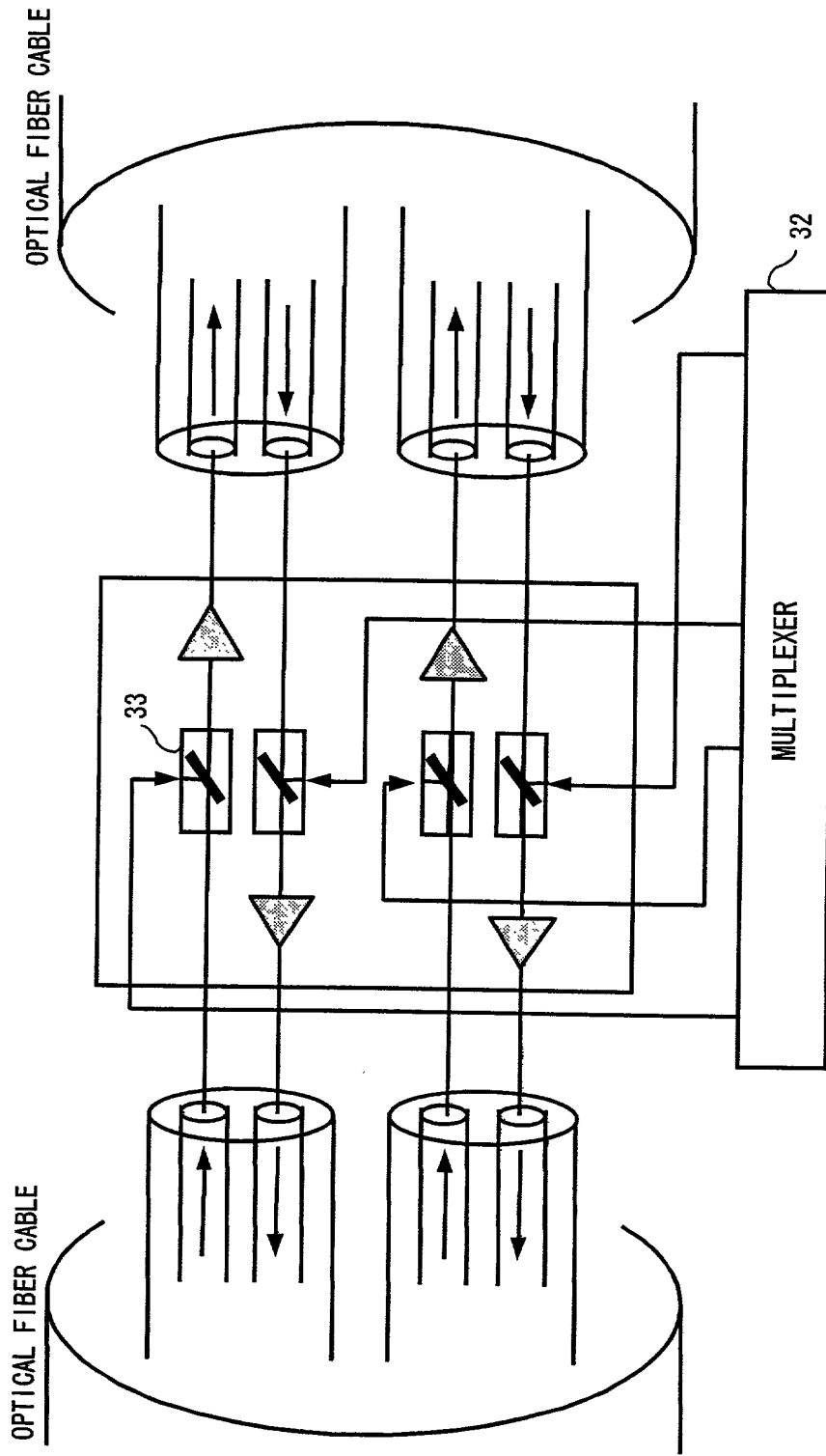
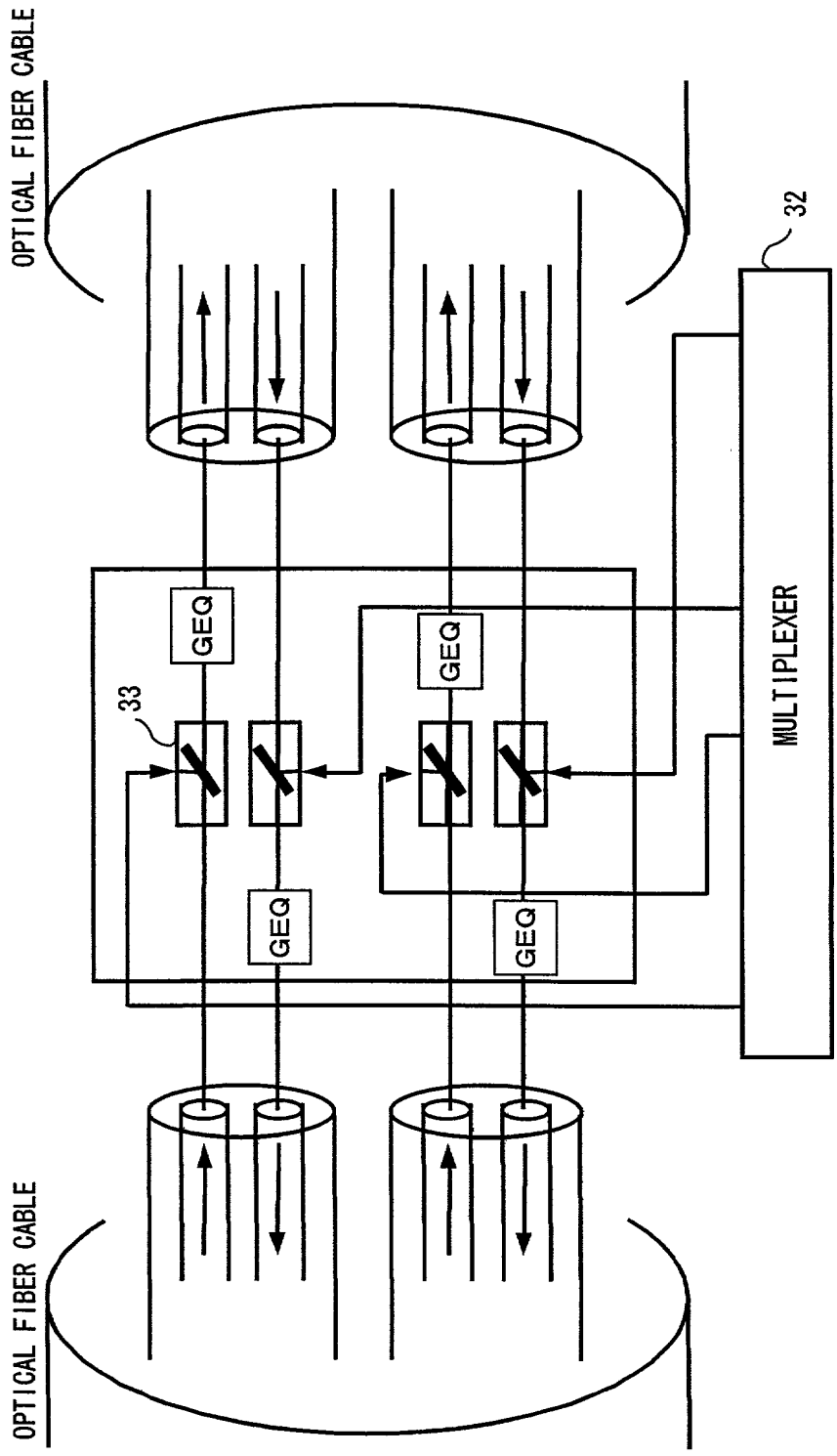


FIG. 8



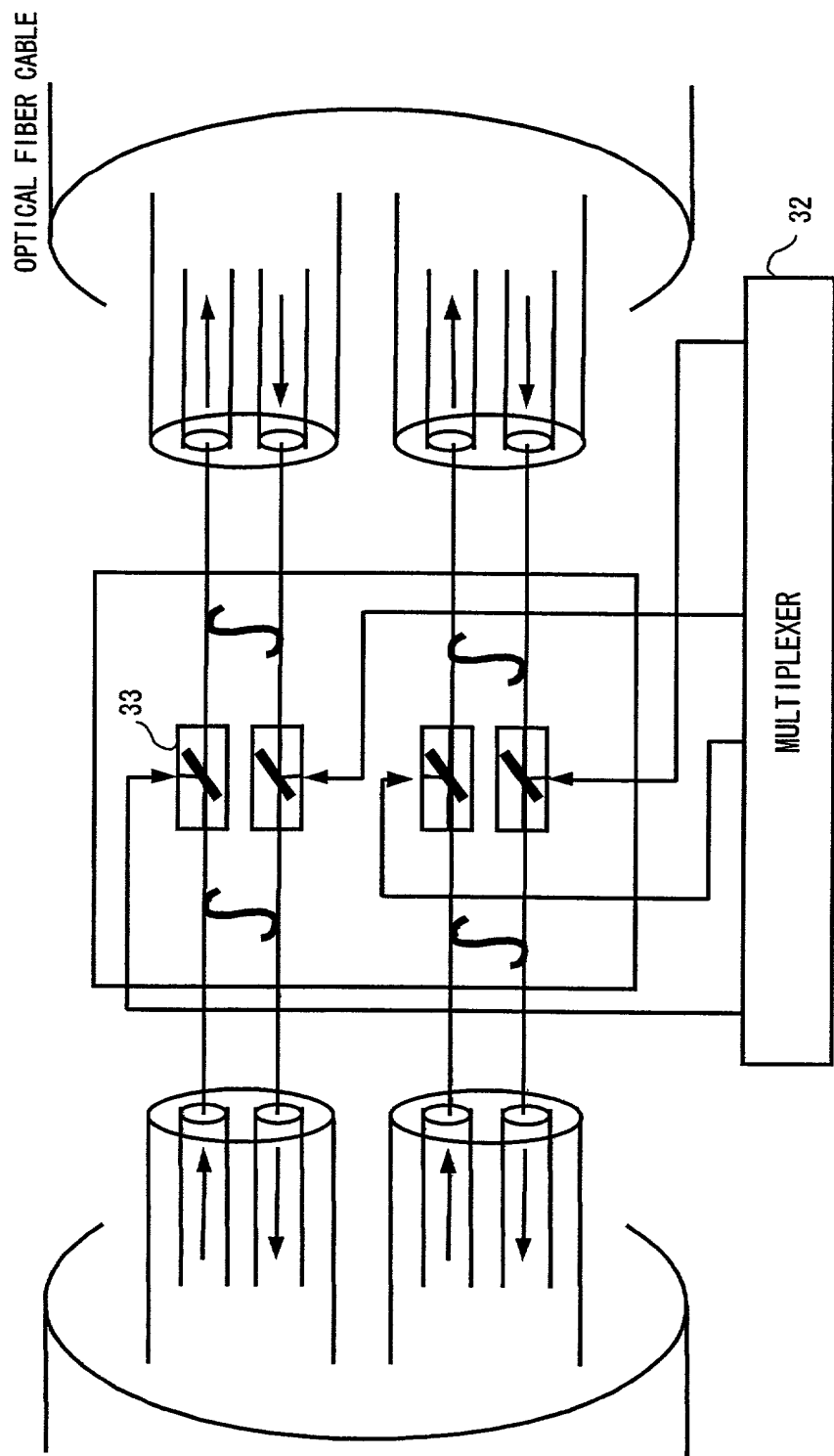
▲ : EDFA

FIG. 9



GEQ : GAIN EQUALIZER

FIG. 10



\int : OTDR PATH

FIG. 11

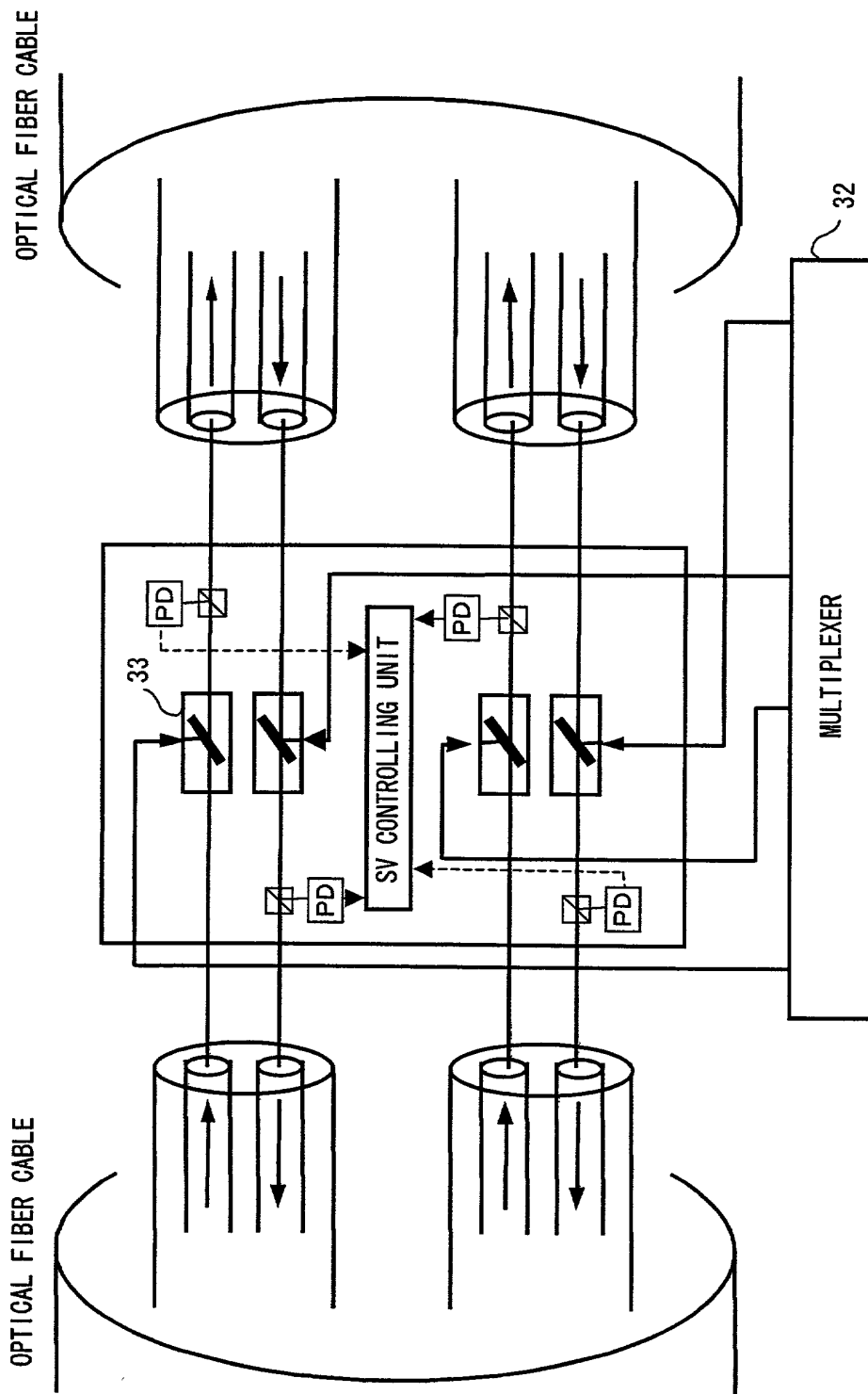


FIG. 12

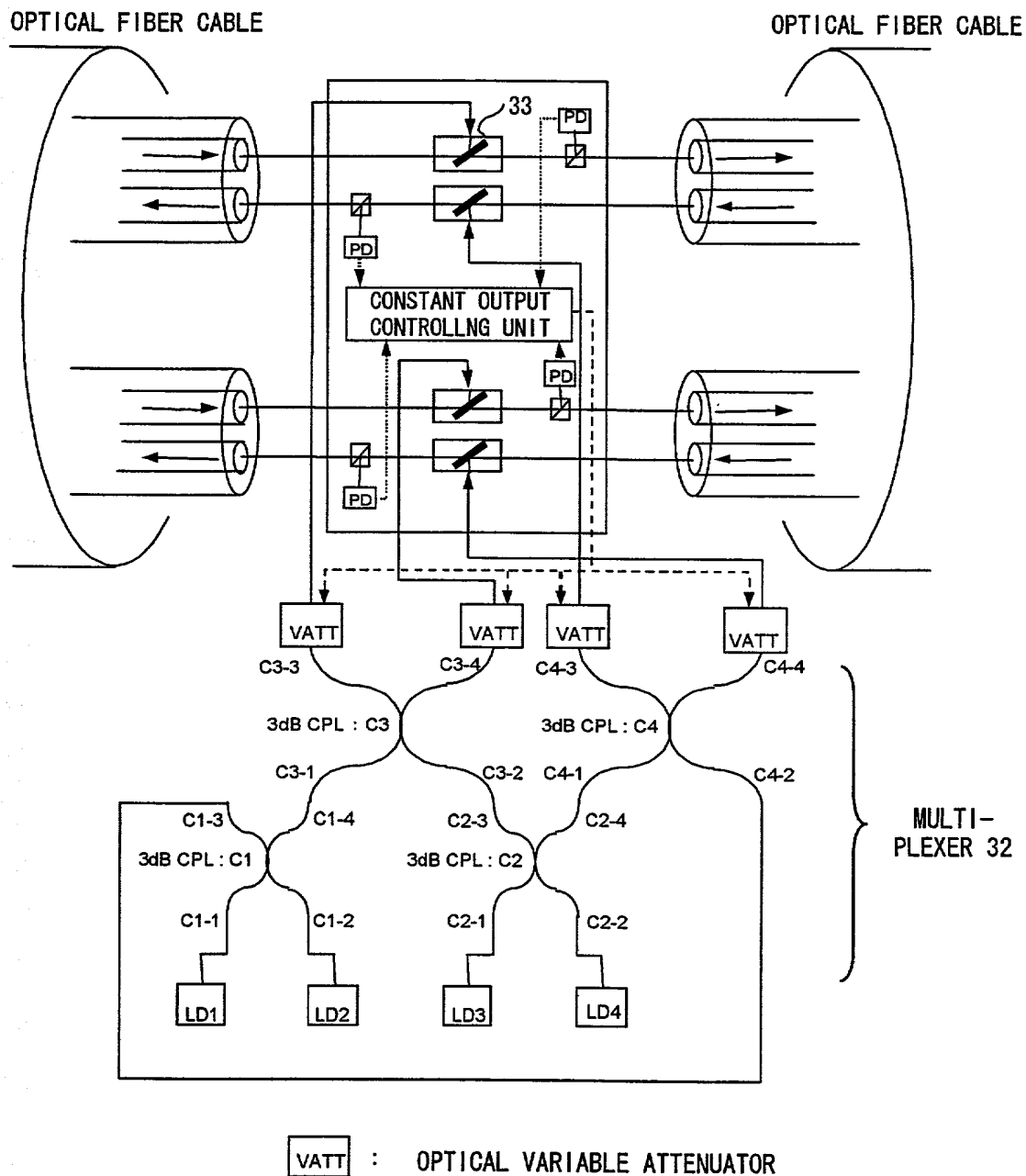
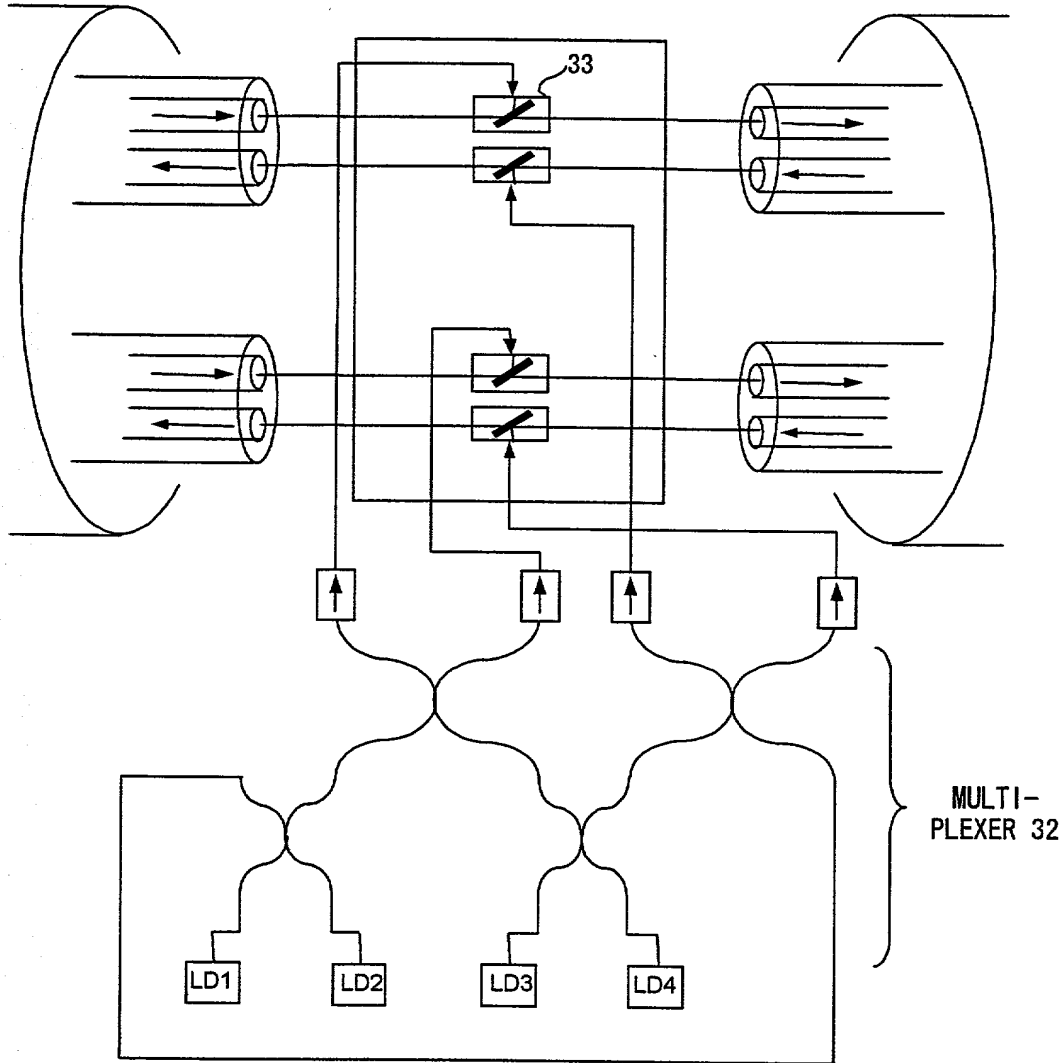


FIG. 13

OPTICAL FIBER CABLE

OPTICAL FIBER CABLE



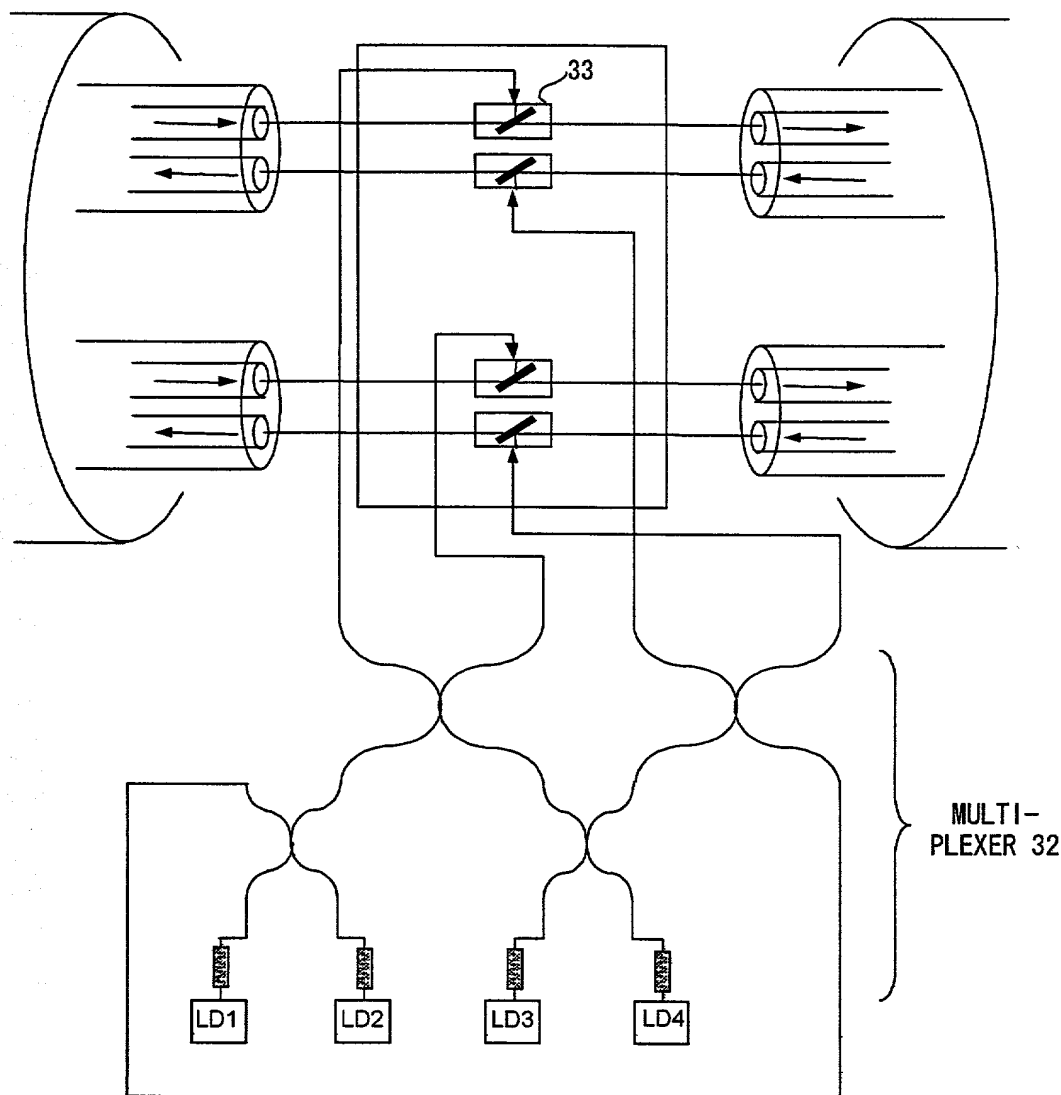
MULTI-
PLEXER 32

↑ : OPTICAL ISOLATOR

FIG. 14

OPTICAL FIBER CABLE

OPTICAL FIBER CABLE



 : OPTICAL FIBER GRATING

FIG. 15

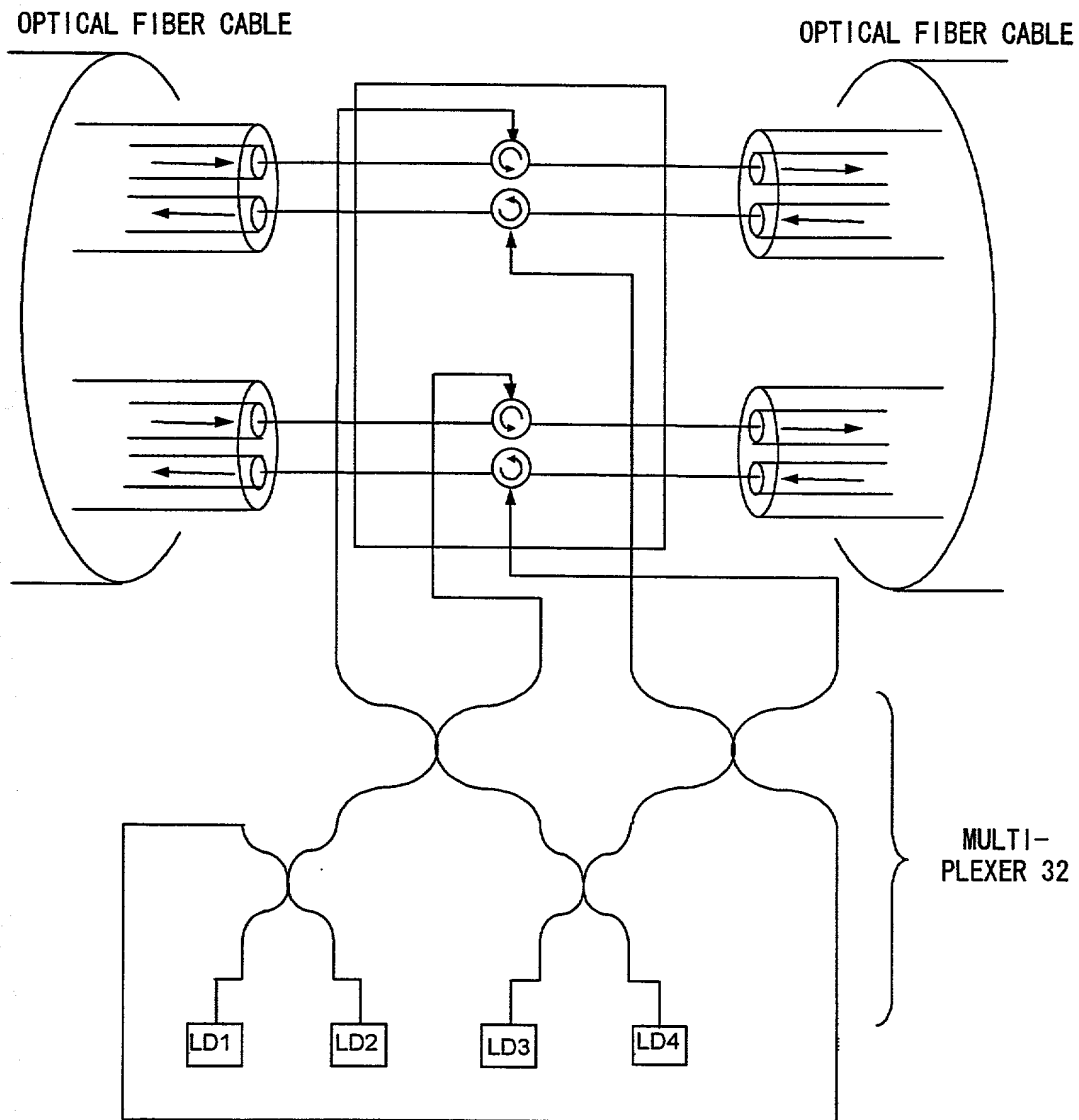


FIG. 16

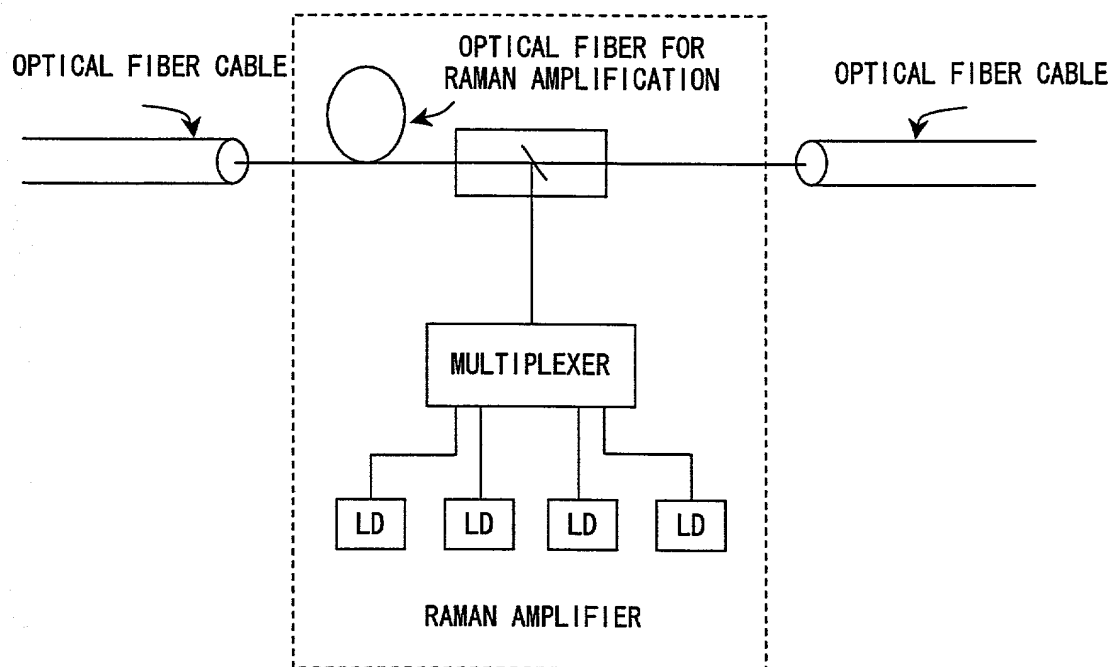


FIG. 17

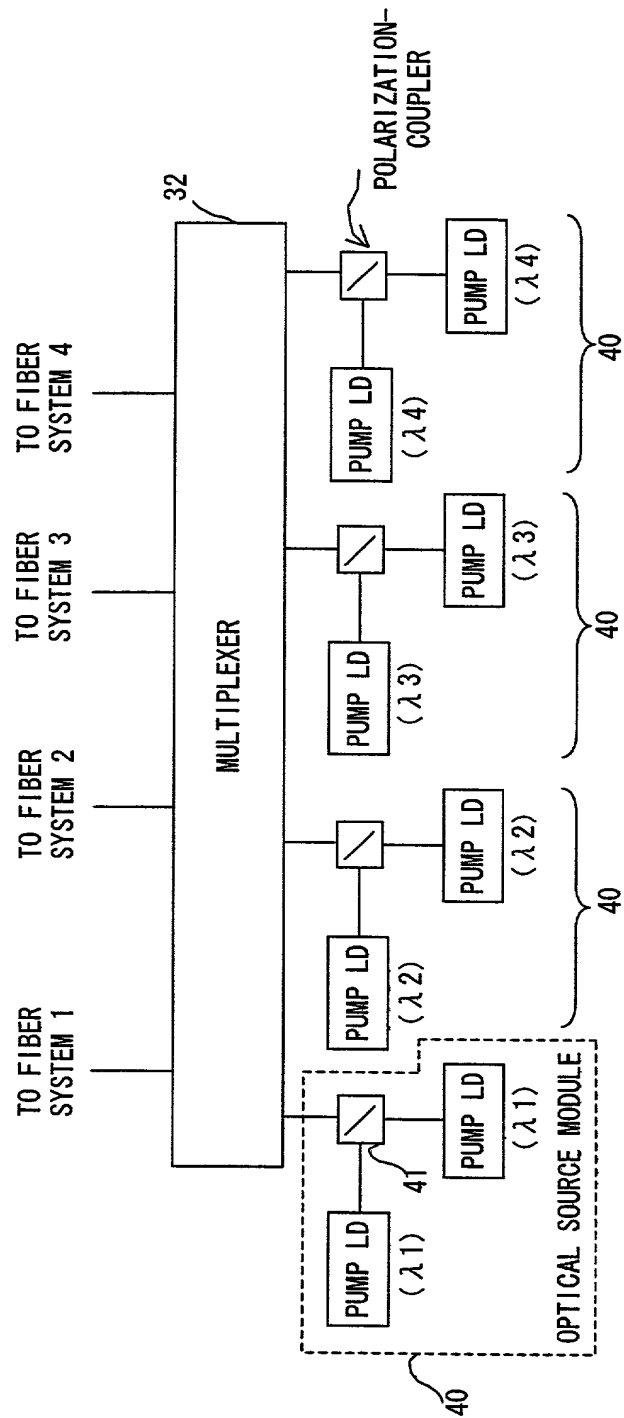


FIG. 18

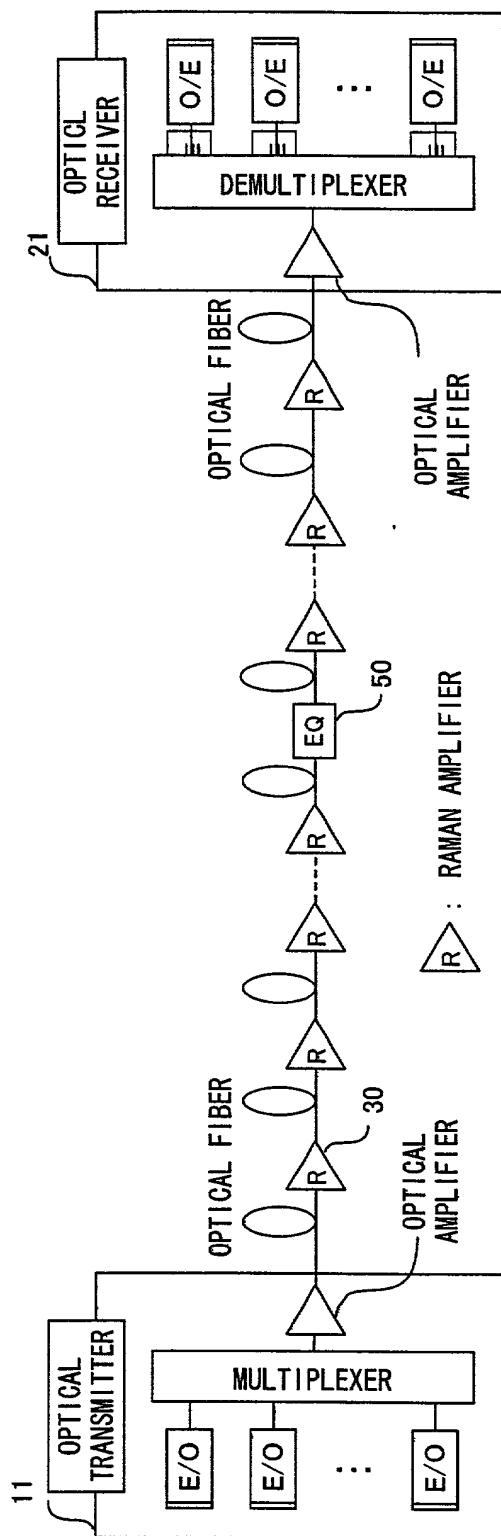


FIG. 19

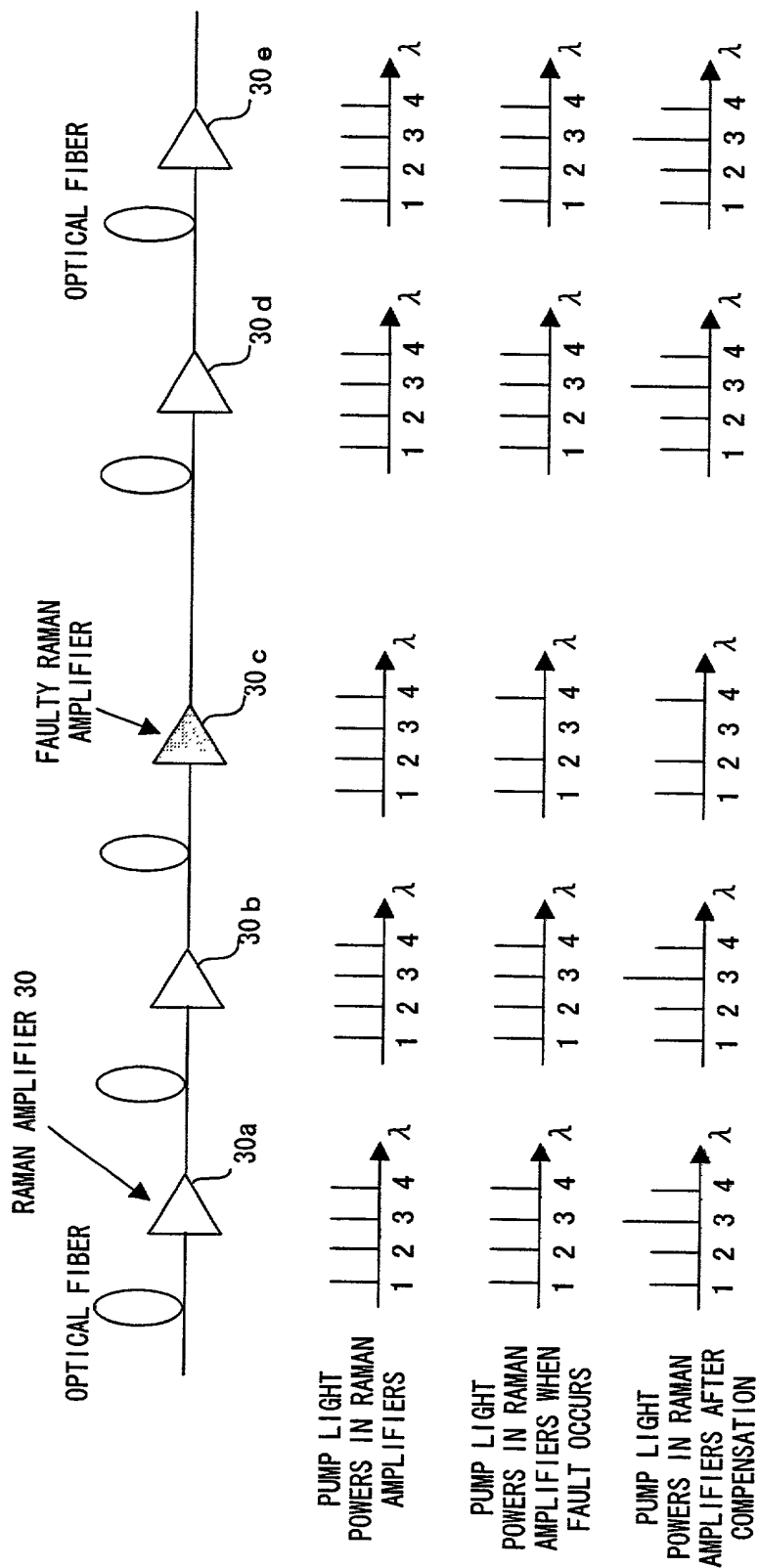


FIG. 20

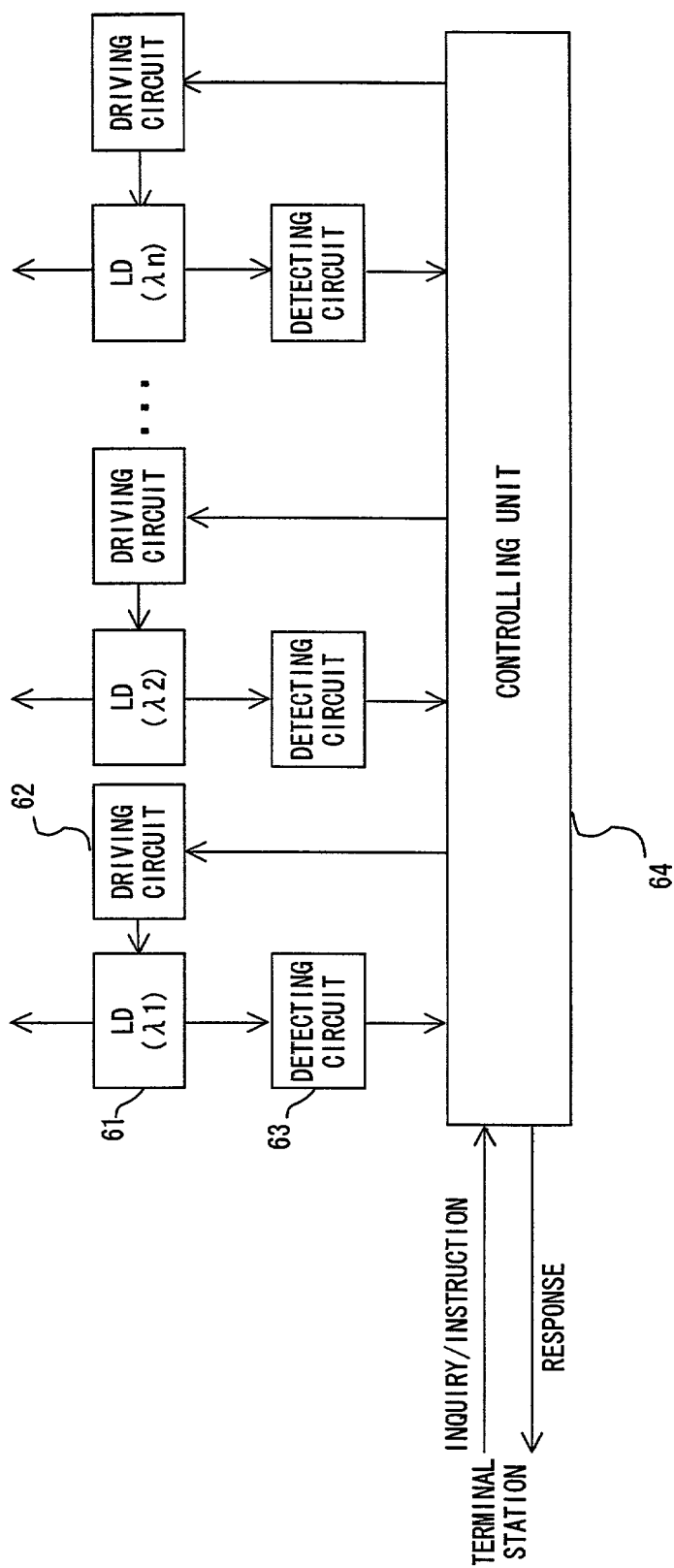


FIG. 21

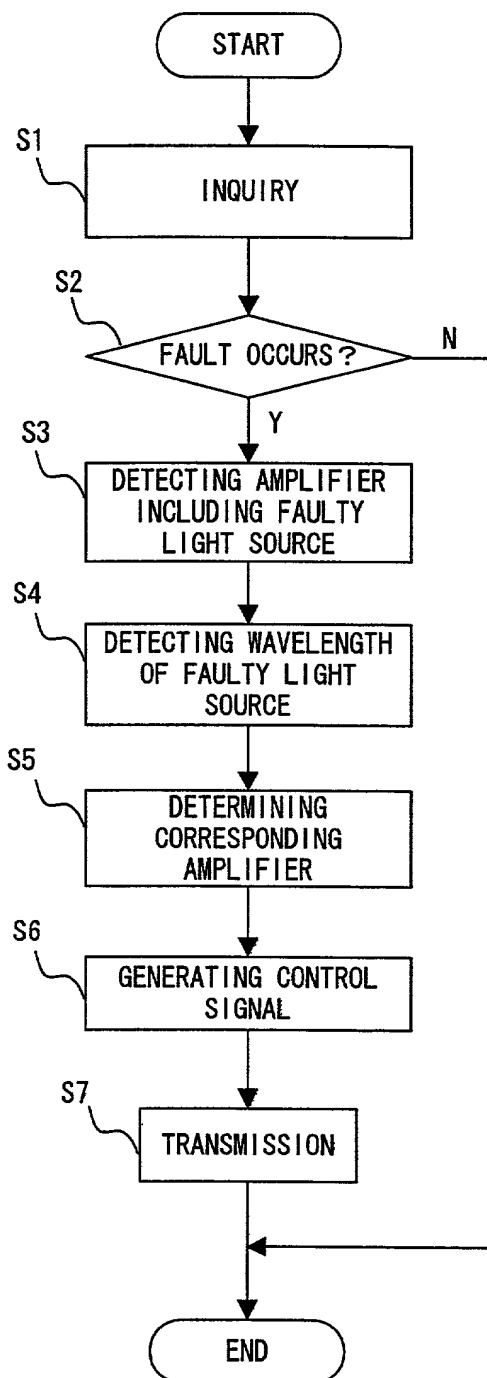


FIG. 22

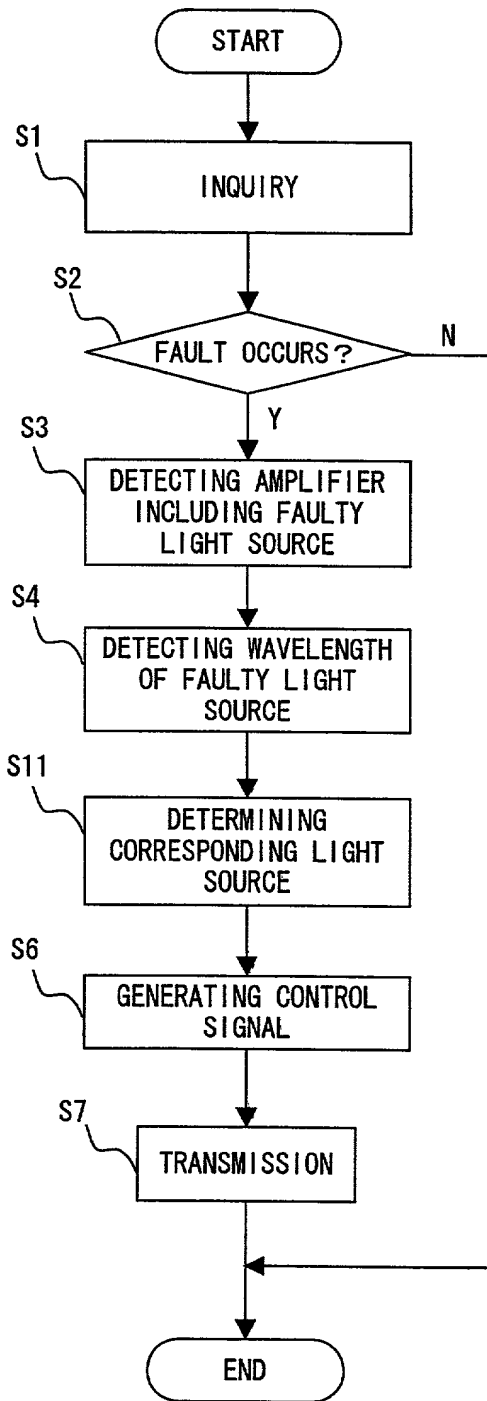


FIG. 24

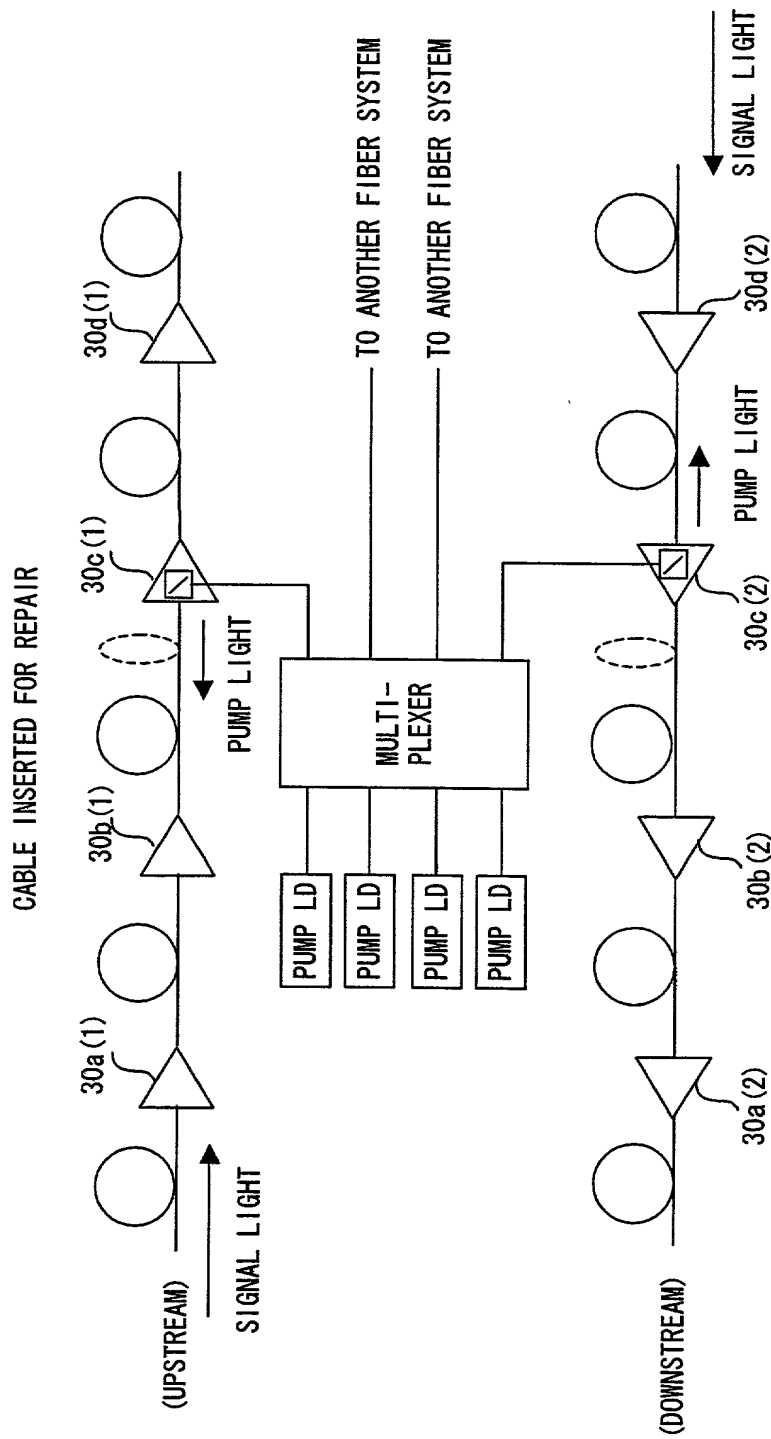


FIG. 26

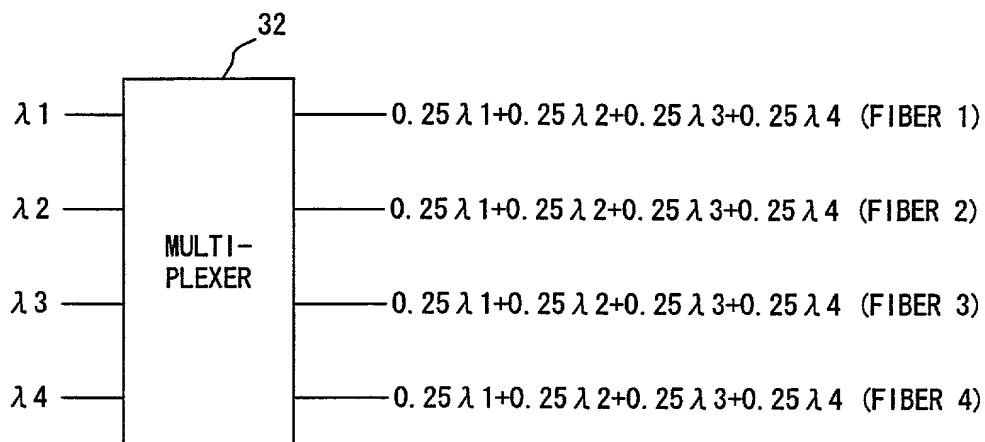


FIG. 27A

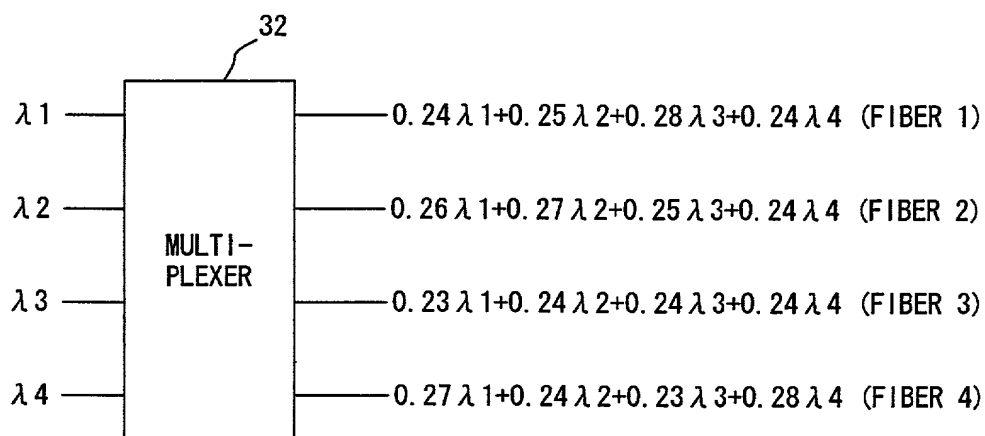


FIG. 27B

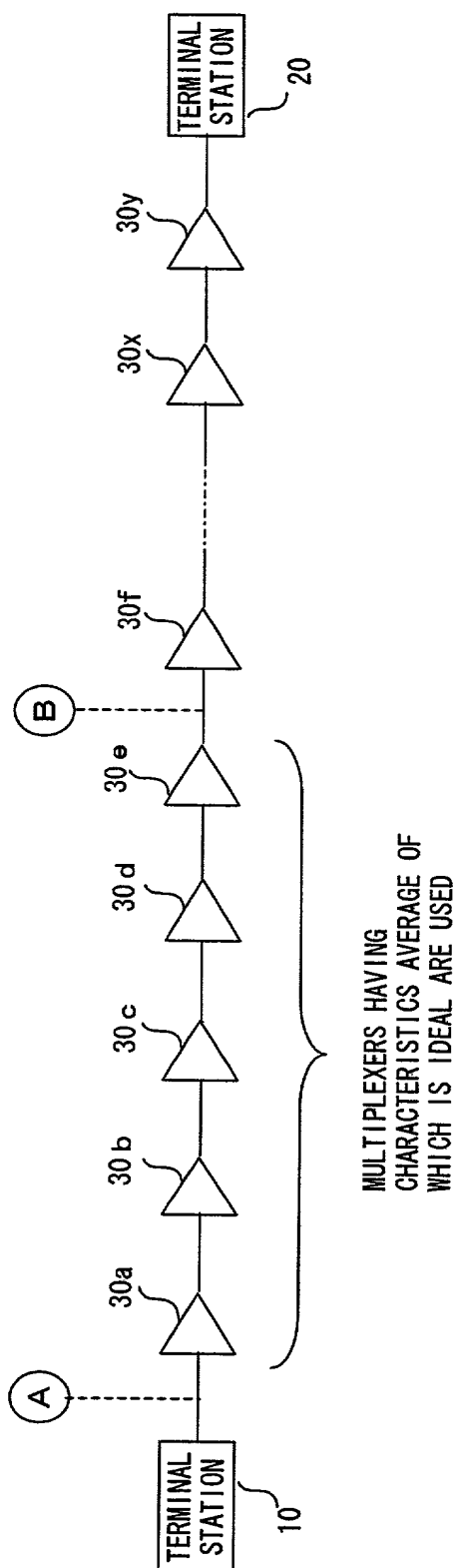


FIG. 28